WM-EX808/EX808HG

SERVICE MANUAL

AEP Model
UK Model
WM-EX808HG
E Model
Tourist Model
WM-EX808

WALKMAN

Model Name Using Similar Mechanism	WM-EX88
Tape Transport Mechanism Type	MT-WMEX808-60

SPECIFICATIONS

Battery life (hours)

Battery	Playback
Rechageable NC-6WM fully charged	Approx. 4.5
Sony SUM-3 (NS)	Approx. 4
Sony alkaline AM3 (N)	Approx. 13
NC-6WM with Sony AM3 (N)	Approx. 17.5

For maximum performance we recommend the use of an alkaline battery.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

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使用時は添付資料も参照のこと
Refer to the supplied documents

CASSETTE PLAYER

SONY®

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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Fiexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SECTION 1
SERVICING NOTE

Hall element H701 mounted on the main board is used to detect rotation of the reels. Because it is mounted on the main board, when the main board is being removed, rotation of the reels cannot be detected and the auto-off/ tape-end detector circuit does not operate correctly.

Switch S702 (N/R switch) is also mounted on the main board. Therefore, without the main board, the head cannot be placed in playback position, and power cannot be supplied to the circuitry of the playback system.

When the main board is being removed, follow the procedures below, in order to check operation of the mechanisms of the tape deck and to check voltages supplied to each circuit.

NOTE:

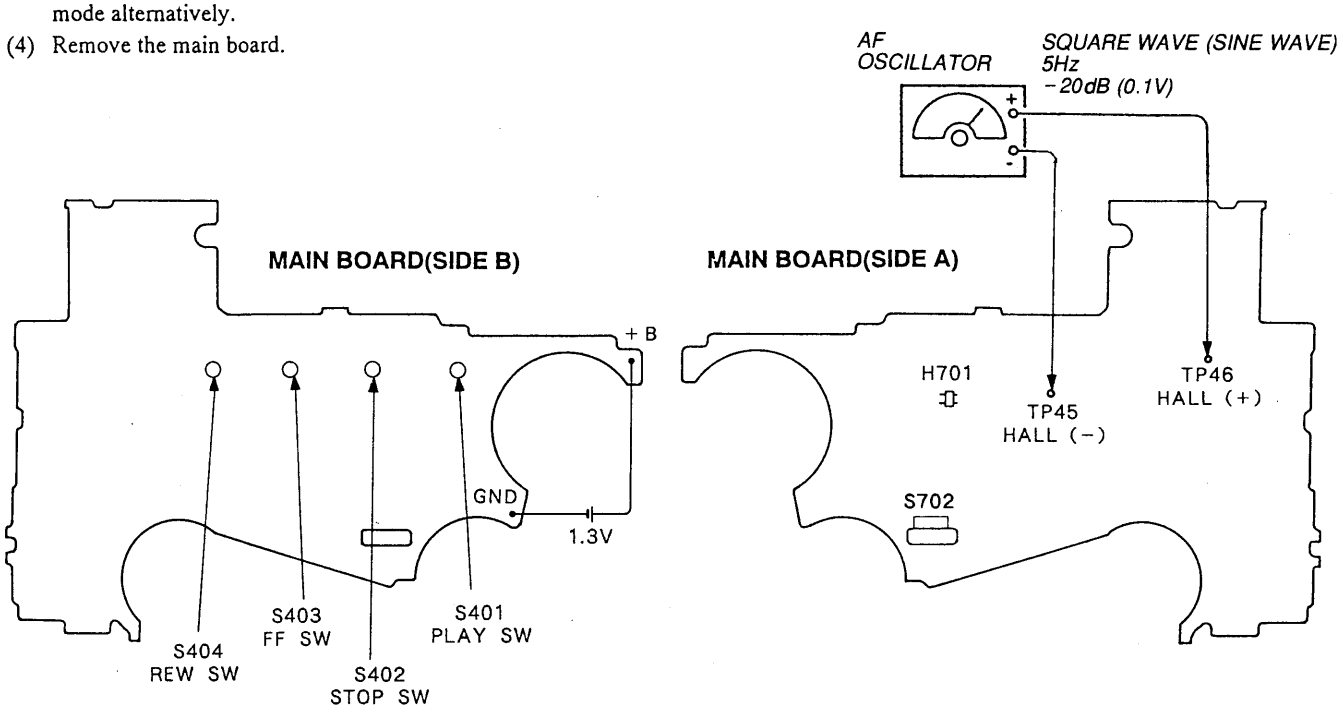
Do not change the setting position of switch S701 when removing the main board. If it has been changed accidentally, or if the desired mode cannot be set with the switch, adjust the setting again after the main board is installed.

FF/REW mode

(1) Apply a square wave signal or a sine wave signal to hall element H701. (See the figure on the right.)
(2) Press the STOP switch for selecting STOP mode.
(3) Press the FF or REW switch.
(4) Remove the main board.

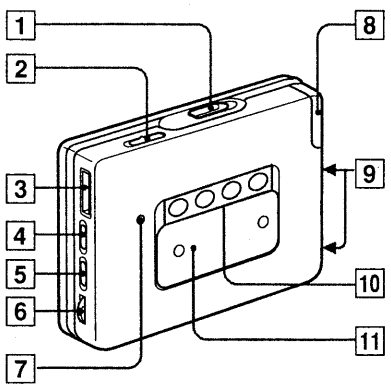
PLAY mode

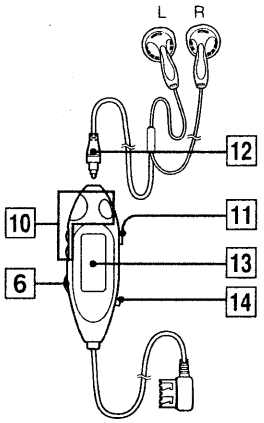
(1) Apply a square wave signal or a sine wave signal to hall element H701. (See the figure on the right.)
(2) Press the STOP switch for selecting STOP mode.
(3) Press the PLAY switch. With the main board installed, pressing the PLAY switch selects the FWD or REV mode alternatively.
(4) Remove the main board.



SECTION 2
GENERAL

This section is extracted from instruction manual.





Parts Identification (See illustration .)

1 **OPEN switch**

2 **EX DBB (Dynamic Bass Boost) selector**
To listen to heavy and powerful sound, set it to MID (middle) or MAX (maximum).

3 **REMOTE/Ω (remote controller/headphones) jack**

4 **⮌ • ⮎ (playback mode)/BL SKIP (blank skip) selector**
⮌ : Plays back both sides of the cassette once. When the playback starts from the reverse side of the cassette, the unit shuts off automatically at the end of that side.
⮎ : Plays back both sides of the cassette continuously and fast-forward the tape to the next track if there is a blank space longer than 12 seconds. (Blank skip function*1)

5 **DD NR (Dolby Noise Reduction) switch**
To listen to a tape recorded in the Dolby B NR system, set it to ON.

6 **VOL (volume) control**

7 **BATT (battery) indicator**

8 **Battery compartment for the rechargeable battery**

9 **Battery connecting points (for supplied battery case)**

10 **Tape operational buttons**
◀▶ (playback/tape transport direction change) button
To change the tape transport direction, press it during playback.
■ (stop) button
FF (fast-forward)/AMS button
To fast-forward the tape, press it while the unit is in the stop mode.
To listen to the next track from the beginning, press it once during playback. (AMS*3 function)
To listen to the other side of the cassette from the beginning, press it twice during playback. (Skip reverse function)
REW (rewind)/AMS button
To rewind the tape rapidly, press it while the unit is in the stop mode.
To listen to the current track from the beginning, press it once during playback. (AMS function)
To listen to the currently played back side of the cassette from the beginning, press it twice during playback. (Auto play function)

11 **Main unit: Hold cover**
Remote controller: HOLD switch
To prevent accidentally pressing the operation buttons on the main unit or remote controller, close the hold cover or set the HOLD switch to HOLD.

12 **Micro plug**

13 **Display window**

14 **AVLS*4 (Automatic Volume Limiter System) selector**
To limit the maximum volume, set it the either 1 or 2.

***1 Blank skip function**
If there is a blank space longer than 12 seconds on a tape, the unit automatically fast-forwards the tape to the next track and the playback will start.
The blank skip function cannot be used on the tapes which are recorded by some recording equipments. In this case, fast-forward the tape.

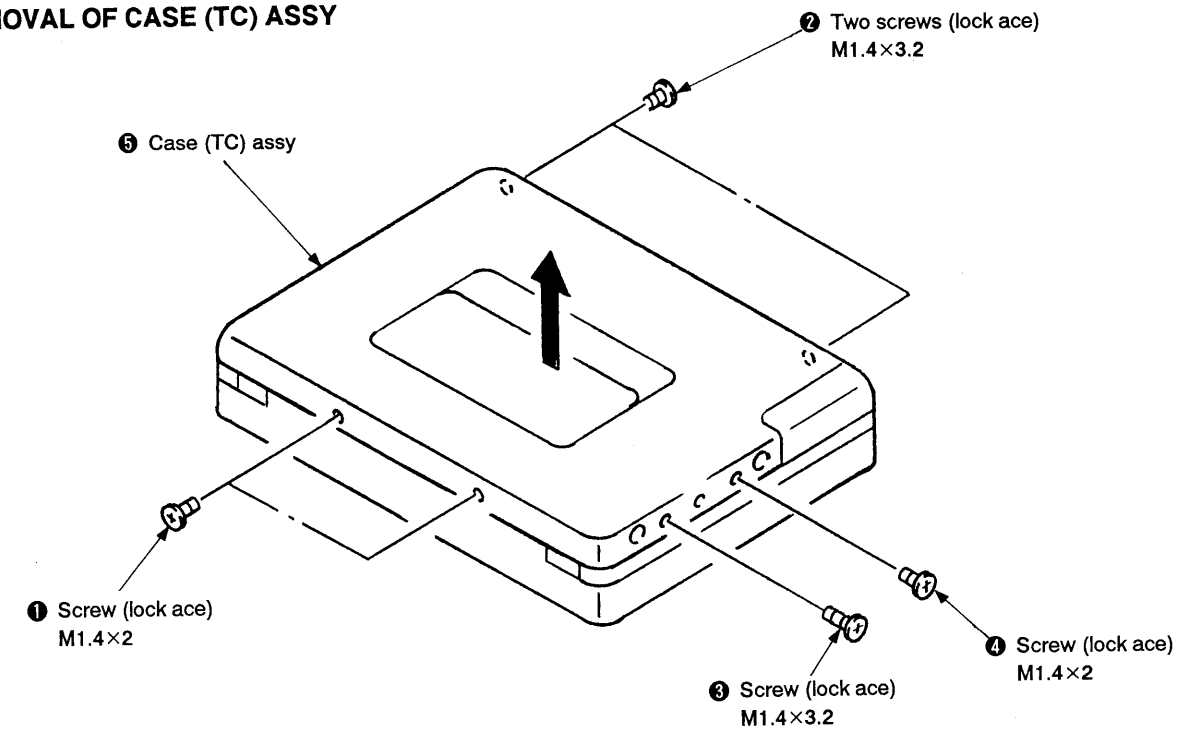
***3 AMS function**
The AMS (Automatic Music Sensor) function may not operate properly in the following situations.
- There are noises in the spaces between tracks.
- A blank space is less than four seconds long.
- A track includes a long pause or continues at low volume for several seconds.

***4 AVLS function**
The AVLS selector on the remote controller allows you to limit the maximum volume of your WALKMAN personal stereo without degrading the sound quality.
- When the AVLS selector is set to either position 1 or 2, the volume will be kept at a moderate level without the degradation of the sound quality, even if you attempt to turn the volume up higher.
- The reproduced sound may be distorted or unstable due to the kind of music being played back. If this happens, turn down the volume.
- When the AVLS selector is turned off, you will be able to enjoy the full volume capability of your WALKMAN personal stereo.

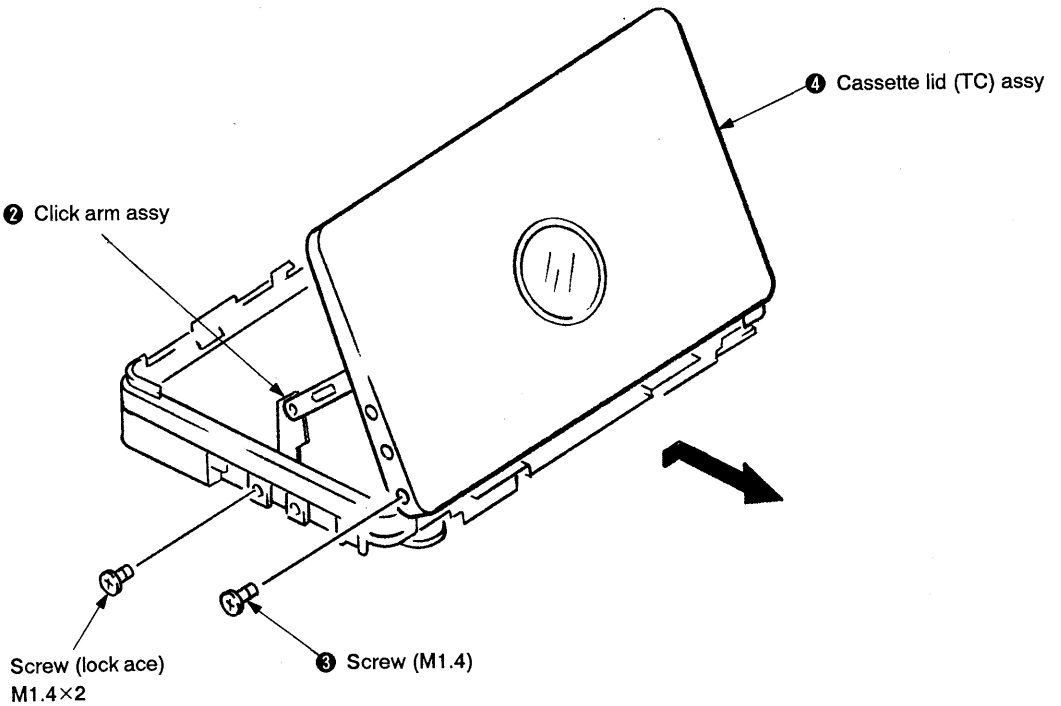
SECTION 3
DISASSEMBLY

Note: Follow the installation procedure in the numerical order given.

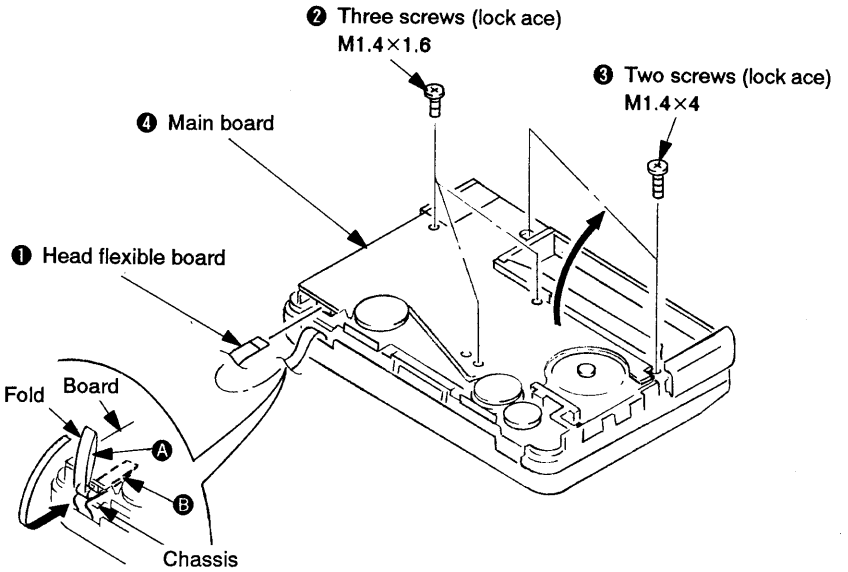
3-1. REMOVAL OF CASE (TC) ASSY



3-2. REMOVAL OF CASSETTE LID (TC) ASSY

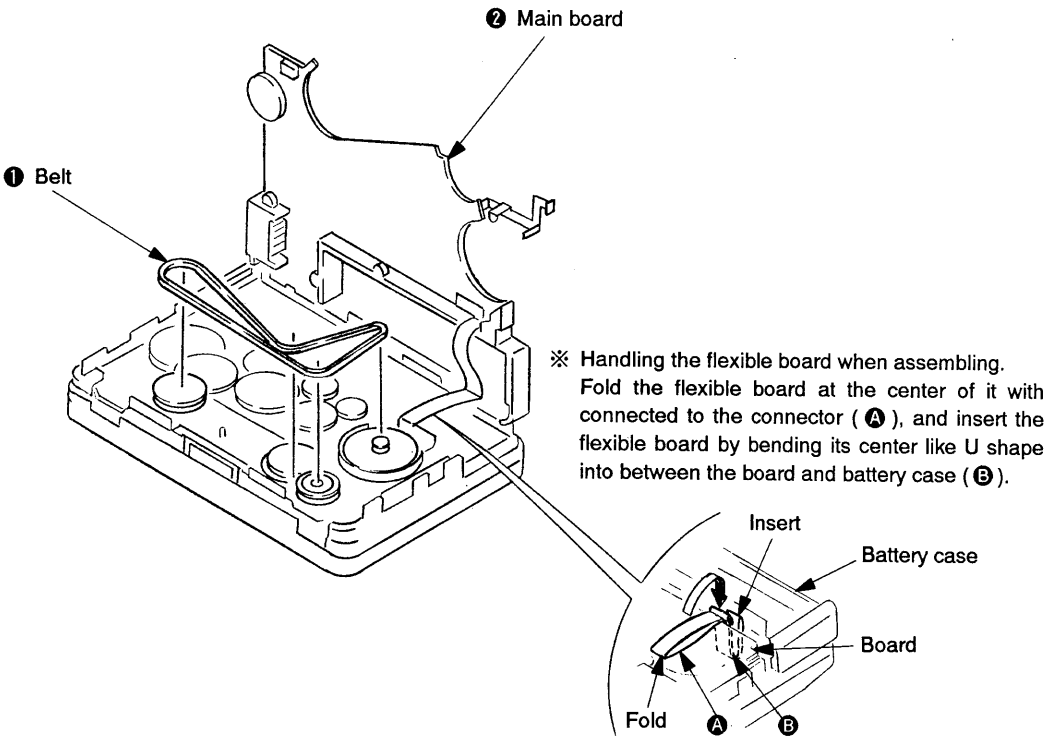


3-3. REMOVAL OF MAIN BOARD



※ Handling the flexible board when assembling.
Fold the flexible board at the center of it with connected to the connector (Ⓐ), and insert the flexible board into between the board and chassis (Ⓑ) as shown below.

3-4. REMOVAL OF BELT


❷ Main board
❶ Belt
※ Handling the flexible board when assembling.
Fold the flexible board at the center of it with connected to the connector (Ⓐ), and insert the flexible board by bending its center like U shape into between the board and battery case (Ⓑ).
Insert
Battery case
Board
Fold
Ⓐ
Ⓑ

SECTION 4
ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   playback head　　rubber belts
   capstan　　idlers
   pinch roller
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage (1.3V) unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	21 – 38 g•cm (0.29 – 0.53 oz•inch)
FWD Back Tension		0.5 – 3 g•cm (0.01 – 0.04 oz•inch)
REV	CQ-102RC	21 – 38 g•cm (0.29 – 0.53 oz•inch)
REV Back Tension		0.5 – 3 g•cm (0.01 – 0.04 oz•inch)
FF	CQ-201B	more than 60 g•cm (more than 0.84 oz•inch)
REW		

Tape Pulling Force Measurement

Mode	Torque meter	Meter reading
FWD	CQ-403A	more than 40 g (more than 1.4 oz)
REV	CQ-403R	

4-2. ELECTRICAL ADJUSTMENTS

PRECAUTION

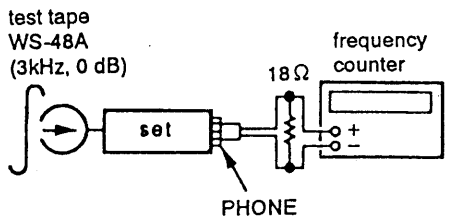
1. Power supply voltage : 1.3V
2. Switch position
   DOLBY NR switch : OFF
   EX DBB switch : NORM
3. For electrical adjustments, use the supplied plug conversion adaptor (Part No. 1-691-322-11)

Test Tape

Type	Signal	Used for
WS-48A	3 kHz, 0 dB	Tape Speed Adjustment

TAPE SPEED ADJUSTMENT

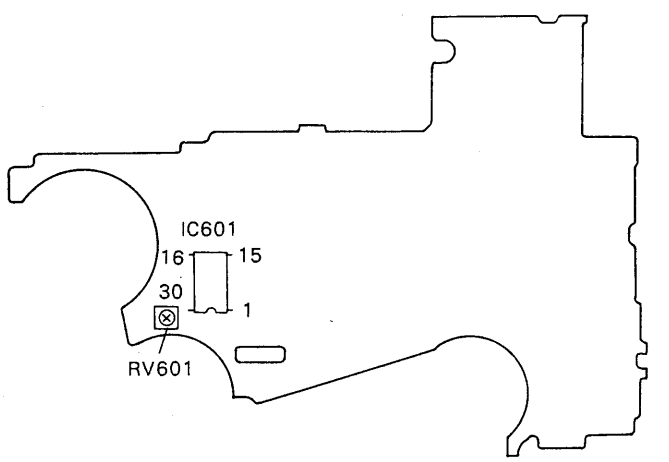
Procedure :



1. Play back WS-48A (tape center portion) in FWD mode. Adjust the RV601 so that the frequency counter reads 3,000 ± 30Hz.
2. Play back WS-48A (tape center portion) in REV mode. Confirm that the reading of frequency counter is within 2.5% from the reading in step 1.

Adjustment Parts Location Diagram :

MAIN BOARD — SIDE A —



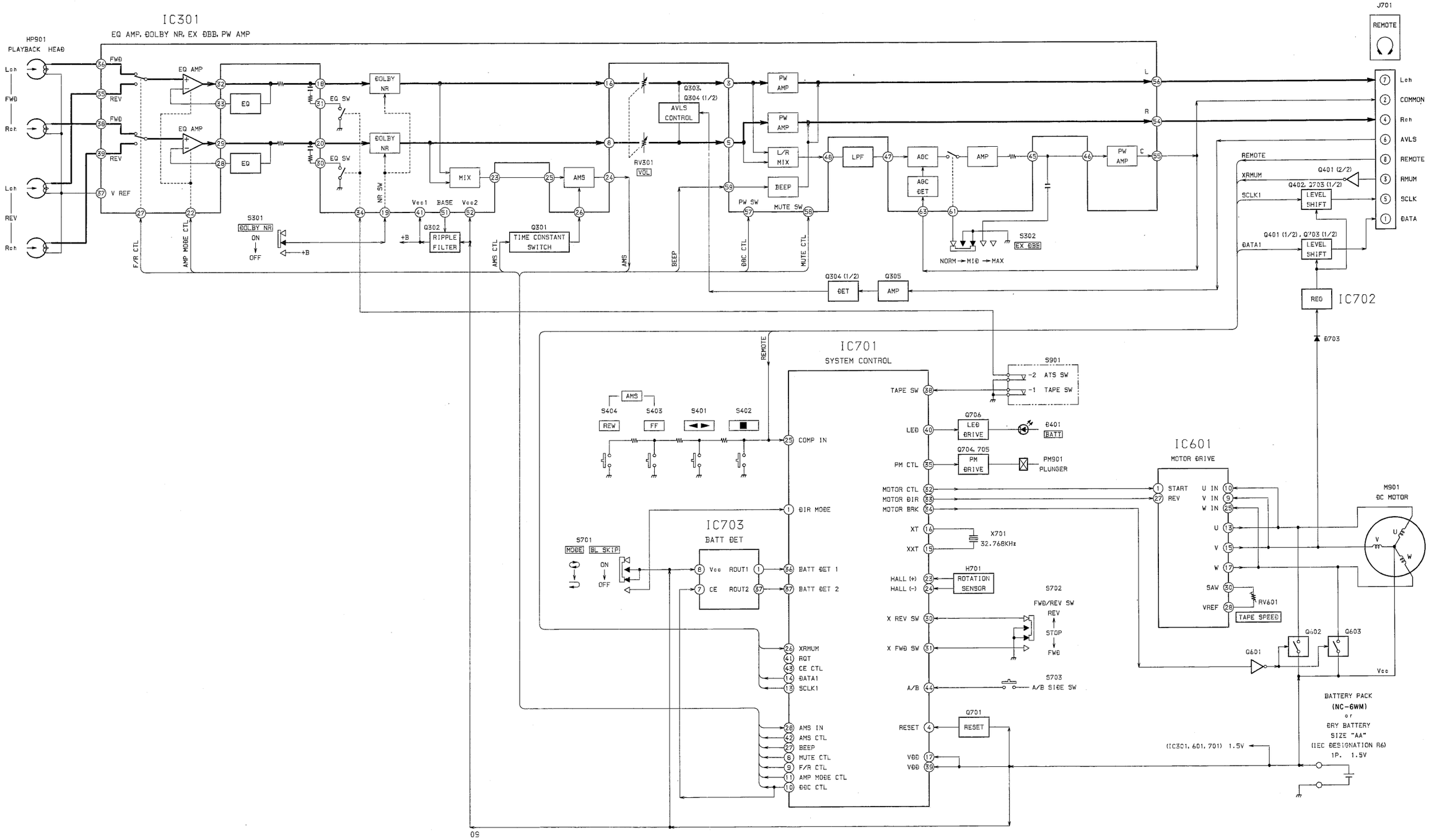
SECTION 5
IC PIN FUNCTIONS

IC701 SYSTEM CONTROL IC (MSM6576-CFX1219)

Pin No.	Pin Name	I/O	INT	ACT	Function
1	DIR MODE	I	–	–	"H"=SHUT OFF MODE, "L"=ENDLESS MODE (BL. SKIP ON)
2	TC/CF	I	–	–	Microcomputer initial setting. "H"=TC, "L"=CF.
3	NC	I	–	–	Not used.
4	RESET	–	–	–	Reset pin. "H"=RESET.
5	TEST1	–	–	–	Test pin (Fixed at "L")
6	TEST2	–	–	–	Test pin (Fixed at "L")
7	TEST3	–	–	–	Test pin (Fixed at "L")
8	MUTE CTL	O	L	H	Muting control. "L"=MUTE ON.
9	F/R CTL	O	L	H	Head selection. "H"=FWD, "L"=REV.
10	DDC CTL	O	L	H	Booster and amplifier power supply control. "H"=DDC ON.
11	AMP MODE CTL	O	L	H	Amplifier mode switching. "H"=TUNER MODE, "L"=TC MODE.
12	NC	O	–	–	Not used.
13	SCLK1	I/O	H	H	CF/TC communication clock (I/O)
14	DATA1	O	H	L	Communication data (O=OPEN)
15	XXT	–	–	–	Connected to crystal oscillator.
16	XT	–	–	–	Connected to crystal oscillator.
17	VDD	–	–	–	1.5V power supply
18	VSS1	–	–	–	GND
19	VCM	–	–	–	Boosts power supply voltage.
20	VCP	–	–	–	Boosts power supply voltage.
21	VSS2	–	–	–	Boosts power supply voltage.
22	VEE	–	–	–	Boosts power supply voltage.
23	HALL (+)	I	–	–	Connected to hole element detected by rotation.
24	HALL (–)	I	–	–	Connected to hole element detected by rotation.
25	COMP IN	I	–	–	Operation button signal input pin.
26	XRMUM	I	–	–	L=remote commander microcomputer on. outputs when "H" (TC only).
27	BEEP	–	–	–	BEEP signal output pin.
28	AMS IN	I	–	–	With/No sound input pin. "H"=with sound.
29	XRADIO PW	I	–	–	Not used.
30	XREV SW	I	–	–	MD condition check. "L"=REV SW ON.
31	XFWD SW	I	–	–	MD condition check. "L"=FWD SW ON.
32	MOTOR CTL	O	L	H	Motor control output pin. "H"=MOTOR ON.
33	MOTOR DIR	O	L	H	Motor rotating direction control. "L"=Forward direction, "H"=Reverse direction.
34	MOTOR BRK	O	L	H	Motor brake control. "H"=BRAKE ON.
35	PM CTL	O	L	H	PM operation timing ("H"=plunger activated.)
36	BATT DET1	I	–	–	Battery voltage detection (1)
37	BATT DET2	I	–	–	Battery voltage detection (2)
38	TAPE SW	I	–	–	With/No tape detection. "H"=NO TAPE (returned to OFF+A side when taken out.)
39	VDD	–	–	–	1.5V power supply
40	LED	O	L	H	LED operation. "H"=Lights. (OFF when LOW BATT.)
41	RQT	O	L	H	
42	AMS CTL	O	–	–	With/No sound detection level control. "H"=FF/REW mode.
43	CE CTL	O	L	H	Not used.
44	A/B	I	–	–	"H"=MD FWD on A side, "L"=MD FWD on B side.

SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM



6-2. PRINTED WIRING BOARD

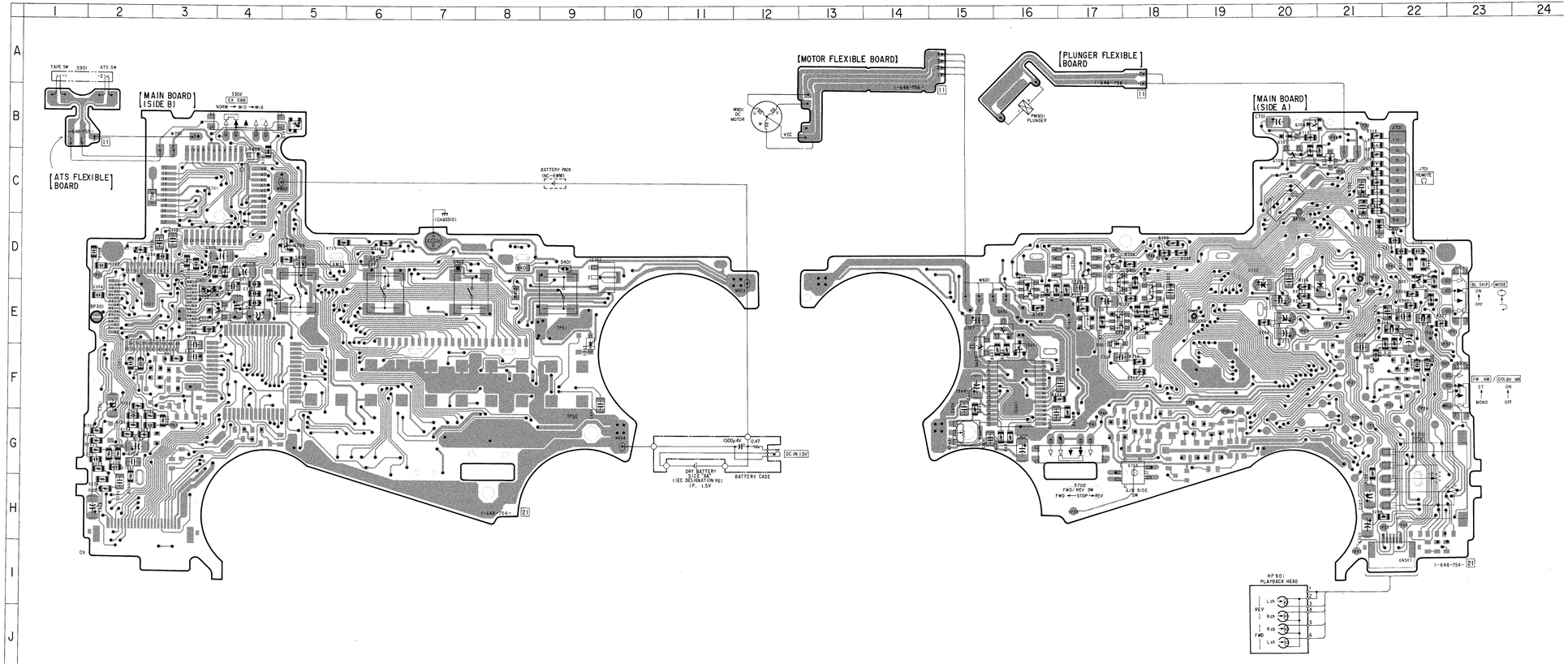
• See page 19 for Semiconductor Lead Layouts.

• Semiconductor Location

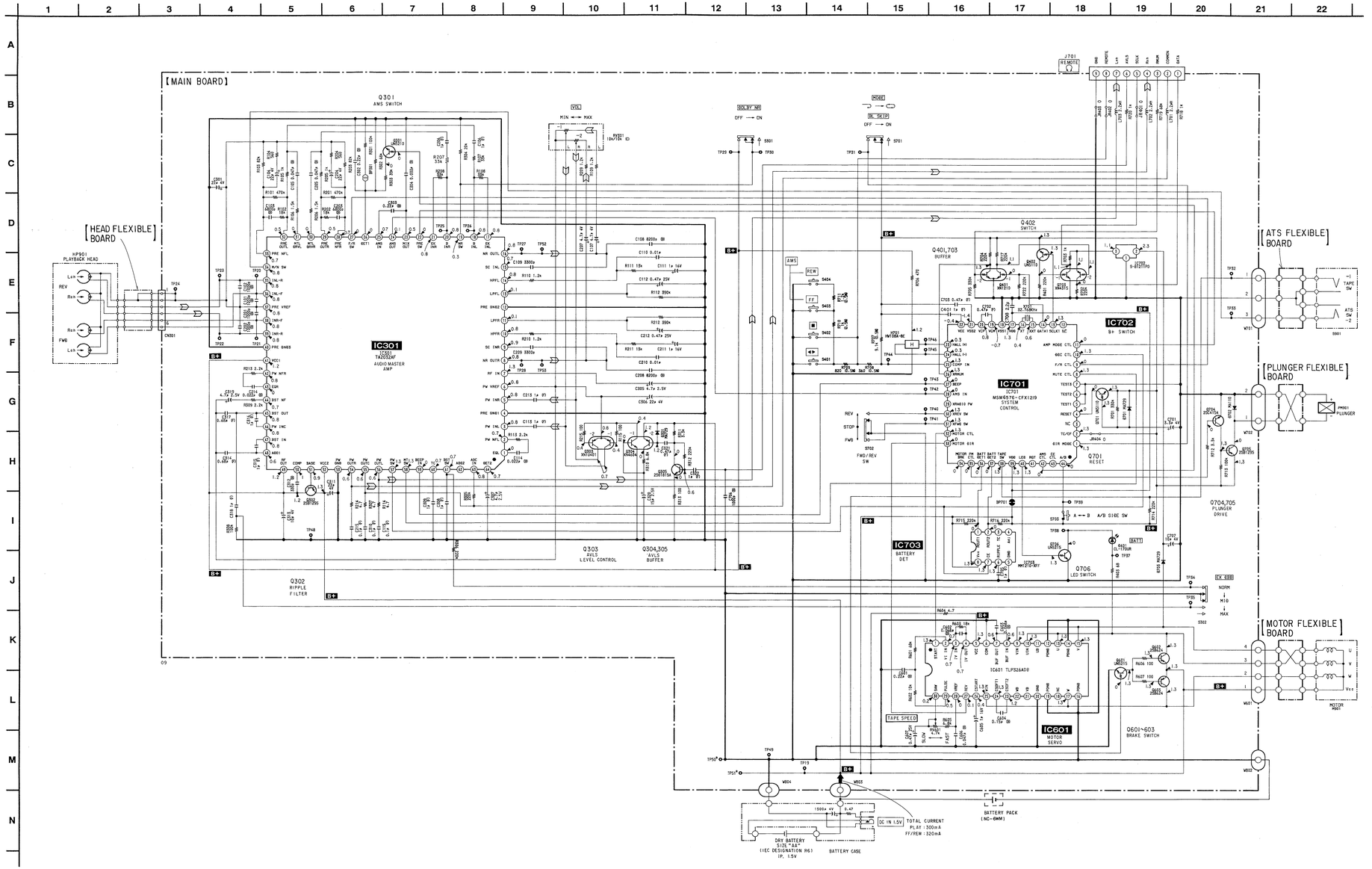
Ref. No.	Location
D301	E-17
D401	E-3
D701	B-20
D702	C-21
D703	E-9
IC301	E-2
IC601	F-16
IC701	C-3
IC702	D-9
IC703	D-17
Q301	D-22
Q302	E-3
Q303	D-18
Q304	E-17
Q305	E-18
Q401	D-17
Q402	D-17
Q601	E-16
Q602	E-16
Q603	F-15
Q701	B-5
Q703	D-16
Q704	B-20
Q705	C-20
Q706	D-5

Note:

- : Through hole.
- : Pattern on the side which is seen.
  (The other layer's patterns are not indicated.)

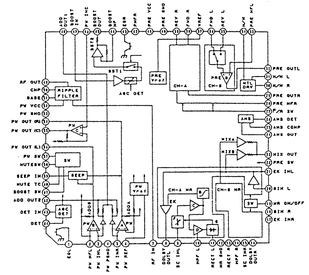


6-3. SCHEMATIC DIAGRAM

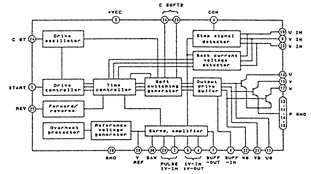


• IC BLOCK DIAGRAMS

IC301 TA2032AF



IC601 TLP326ADB

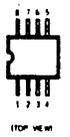


Note:

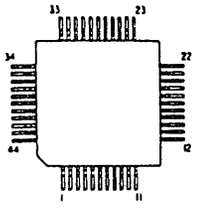
- All capacitors are in μF unless otherwise noted. pF:μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- ▭ : panel disignation
- B+ : B+ Line
- ▭ : adjustment for repair.
- Total current is measured with no cassette installed.
- Supply 1.3Vdc from the battery terminal as regulated power voltage.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY
- Voltages are taken with a VOM (Input impedance 10Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ▷ : PB

6-4. SEMICONDUCTOR LEAD LAYOUTS

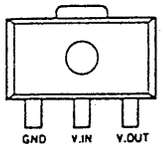
MM1210-XFF



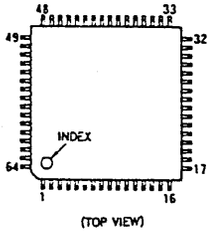
MSM6576-CFX1219



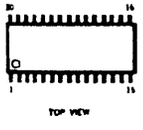
S-81211PG-PA



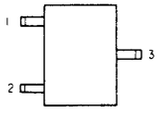
TA2032AF



TLP326ADB

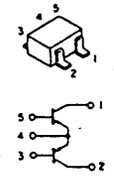


UN5110-QRS

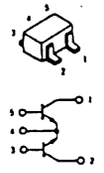


UN5210
UN5215
2SB1295-UL6
2SB624-BV345
2SC4116-YG
2SC4154-F

XN1U401

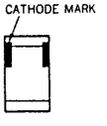


XN1210

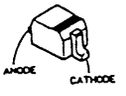


XN4315
XN4604

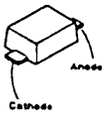
CL-170UR-CD



MA110



MA729

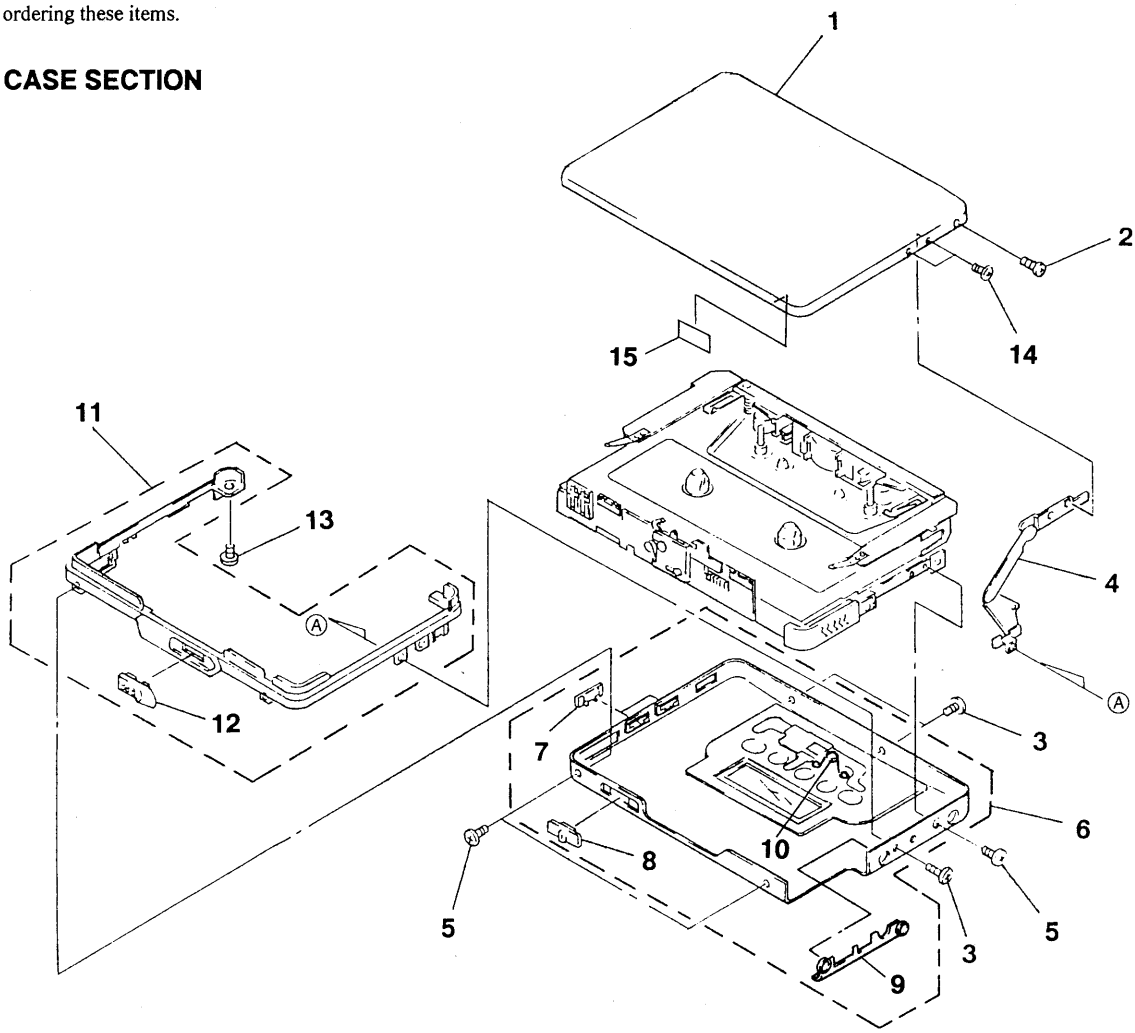


SECTION 7
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

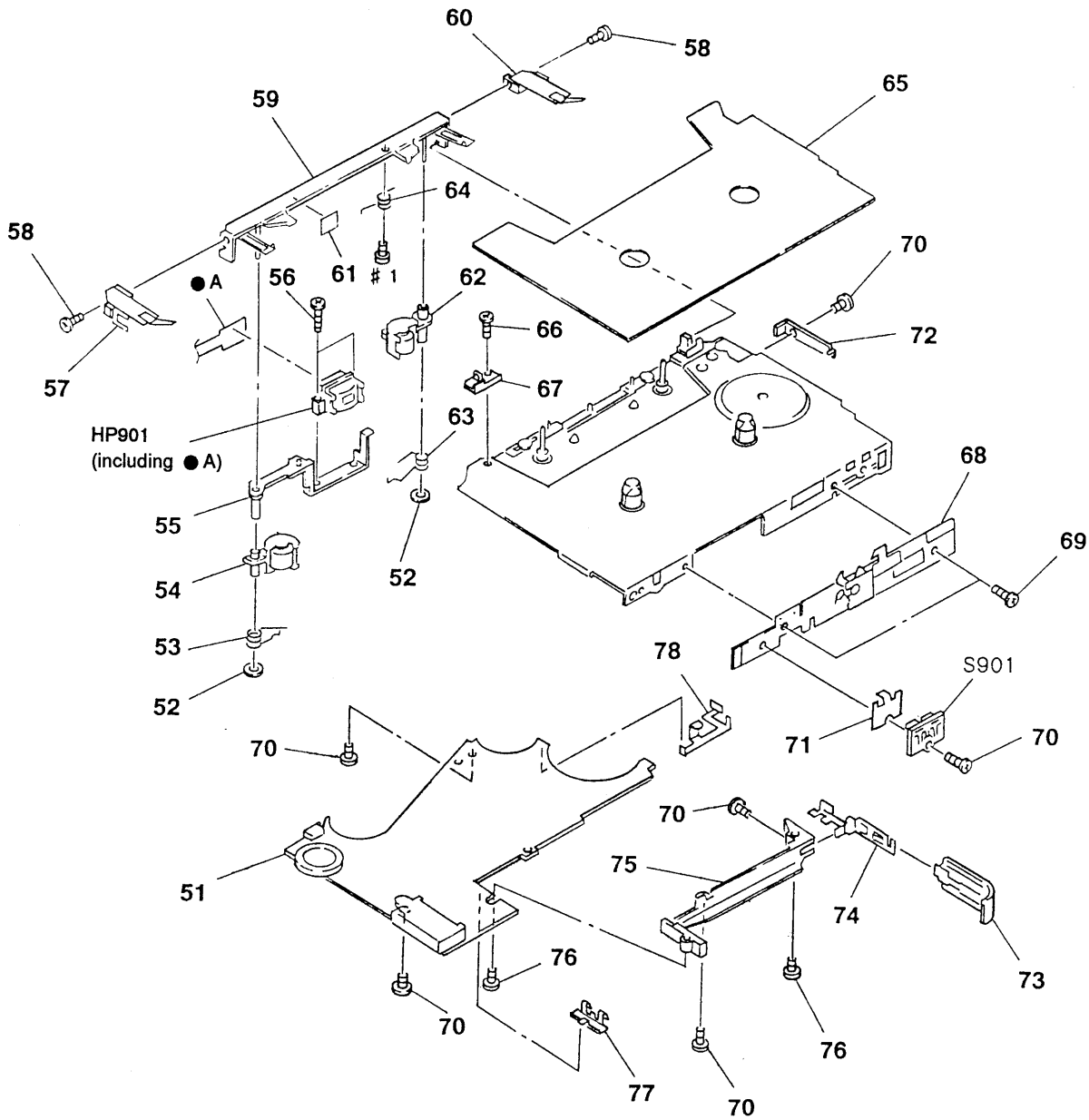
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. CASE SECTION



Ref. No.	Part No.	Description	Remark
1	X-3367-110-1	LID (TC) ASSY, CASSETTE (BLACK:EX808)	
1	X-3367-234-1	LID (TC) ASSY, CASSETTE (SILVER:EX808)	
1	X-3367-235-1	LID (TC) ASSY, CASSETTE (BLUE:EX808)	
1	X-3367-236-1	LID (TC) ASSY, CASSETTE (ORANGE:EX808)	
1	X-3367-246-1	LID (TC) ASSY, CASSETTE (EX808HG)	
2	3-907-009-01	SCREW (M1.4) (SILVER, ORANGE:EX808) (EX808HG)	
2	3-907-009-11	SCREW (M1.4) (BLACK, BLUE:EX808)	
3	3-704-197-11	SCREW (M1.4X2), LOCKING (SILVER, ORANGE:EX808) (EX808HG)	
3	3-704-197-13	SCREW (M1.4X2), LOCKING (BLACK, BLUE:EX808)	
4	X-3367-264-1	ARM ASSY, CLICK	
5	3-365-611-91	SCREW (M1.4) (SILVER, ORANGE:EX808) (EX808HG)	
5	3-365-611-95	SCREW (M1.4) (BLACK, BLUE:EX808)	
6	X-3367-108-1	CASE (TC) ASSY (BLACK:EX808)	
6	X-3367-231-1	CASE (TC) ASSY (SILVER:EX808)	
6	X-3367-232-1	CASE (TC) ASSY (BLUE:EX808)	
6	X-3367-233-1	CASE (TC) ASSY (ORANGE:EX808)	
6	X-3367-245-1	CASE (TC) ASSY (EX808HG)	
7	3-905-326-01	KNOB (MODE) (BLACK:EX808)	
7	3-905-326-11	KNOB (MODE) (SILVER, ORANGE:EX808)	
7	3-905-326-21	KNOB (MODE) (BLUE:EX808)	
7	3-905-326-31	KNOB (MODE) (EX808HG)	
8	3-905-327-01	KNOB (DBB) (BLACK:EX808)	
8	3-905-327-11	KNOB (DBB) (SILVER, ORANGE:EX808)	
8	3-905-327-21	KNOB (DBB) (BLUE:EX808)	
8	3-905-327-31	KNOB (DBB) (EX808HG)	
9	3-905-328-01	PLATE, ORNAMENTAL	
10	3-905-391-01	SPRING (HOLD)	
11	X-3367-087-1	ORNAMENT ASSY, REEL (BLACK, BLUE:EX808)	
11	X-3367-230-1	ORNAMENT ASSY, REEL (SILVER, ORANGE:EX808) (EX808HG)	
12	3-905-305-01	KNOB (OPEN) (BLACK, BLUE:EX808)	
12	3-905-305-11	KNOB (OPEN) (SILVER, ORANGE:EX808) (EX808HG)	
13	3-704-197-01	SCREW (M1.4X1.6), LOCKING	
14	3-704-197-01	SCREW (M1.4X1.6), LOCKING (SILVER, ORANGE:EX808) (EX808HG)	
14	3-704-197-03	SCREW (M1.4X1.6), LOCKING (BLACK, BLUE:EX808)	
15	3-355-447-01	SPACER (OPEN)	

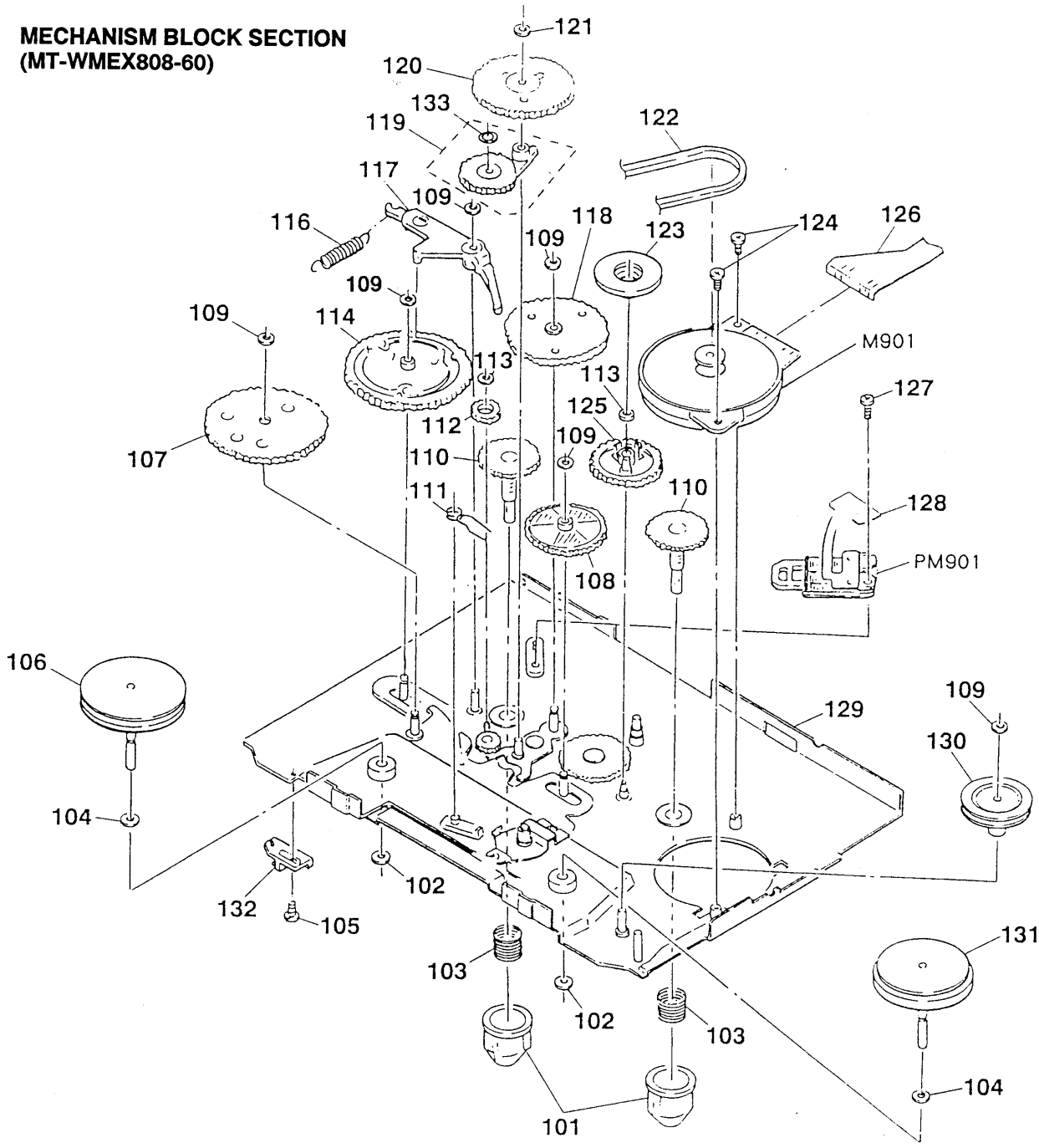
7-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
51	A-3016-437-A	MAIN BOARD, COMPLETE	
52	3-380-362-11	WASHER	
53	3-379-057-01	SPRING (RPR)	
54	X-3362-560-1	PINCH LEVER (R) ASSY	
* 55	3-388-290-01	LEVER (N), HEAD	
56	3-704-413-31	SCREW (M1.4X7.2)	
57	X-3367-262-1	HOLDER (TC-R) ASSY, CASSETTE	
58	3-704-197-21	SCREW (M1.4X2.5), LOCKING	
59	X-3367-023-1	HOLDER ASSY (U)	
60	X-3367-263-1	HOLDER (TC-L) ASSY, CASSETTE	
* 61	3-357-732-01	SPACER (SUB CHASSIS)	
62	X-3362-559-1	PINCH LEVER (N) ASSY	
63	3-379-056-01	SPRING (RPN)	
64	3-365-769-01	SPRING (H)	
65	3-905-385-01	COVER (TC), MD	
66	3-704-197-91	SCREW (M1.4X1.8), LOCKING	
67	3-373-397-01	GUIDE, HOLDER (NR)	

Ref. No.	Part No.	Description	Remark
68	X-3367-086-1	BRACKET ASSY	
69	3-366-892-01	SCREW (M1.4X1.1)	
70	3-704-197-01	SCREW (M1.4X1.6), LOCKING	
71	1-648-755-11	ATS FLEXIBLE BOARD	
72	3-905-288-01	BRACKET (L)	
73	3-905-383-01	LID (TC), BATTERY CASE (BLACK:EX808)	
73	3-905-383-11	LID (TC), BATTERY CASE (SILVER:EX808)	
73	3-905-383-21	LID (TC), BATTERY CASE (BLUE:EX808)	
73	3-905-383-31	LID (TC), BATTERY CASE (ORANGE:EX808)	
73	3-906-138-01	LID (HG), BATTERY CASE (EX808HG)	
74	X-3367-088-1	TERMINAL BOARD ASSY, BATTERY	
75	3-905-306-01	HOLDER, BATTERY	
76	3-704-197-61	SCREW (M1.4X4), LOCKING	
77	3-905-310-01	TERMINAL BOARD (MINUS), BATTERY	
78	3-905-311-01	TERMINAL BOARD (CASE)	
HP901	1-543-953-12	HEAD, MAGNETIC (PLAYBACK)	
S901	1-692-606-11	SWITCH, LEAF (TAPE/ATS DET)	

7-3. MECHANISM BLOCK SECTION (MT-WMEX808-60)



Ref. No.	Part No.	Description	Remark
101	3-365-801-01	TABLE, REEL	
102	3-331-007-21	WASHER	
103	3-366-058-01	SPRING, COMPRESSION	
104	3-354-407-11	WASHER	
105	3-704-197-91	SCREW (M1.4X1.8), LOCKING	
106	X-3362-552-1	WHEEL (N) ASSY, CAPSTAN	
107	3-365-755-01	GEAR (K)	
108	X-3362-553-1	GEAR (B)	
109	3-349-859-51	WASHER	
110	3-365-750-01	GEAR (REEL)	
111	3-365-785-01	SPRING (NR SELECTION)	
112	3-365-783-01	GEAR (E)	
113	3-361-258-01	BUSHING (A)	
114	3-365-800-01	GEAR, CAM	
116	3-365-766-01	SPRING (TRIGGER), TENSION	
117	3-365-802-01	LEVER (AR), TRIGGER	
118	X-3362-554-1	CLUTCH ASSY	

Ref. No.	Part No.	Description	Remark
119	X-3362-555-1	FR ASSY	
120	3-365-754-01	GEAR (M)	
121	3-349-859-61	WASHER	
122	3-365-765-01	BELT	
123	3-905-287-01	MAGNET	
124	3-331-047-03	SCREW (M1.4X1.8), SPECIAL HEAD	
125	3-904-926-01	GEAR (MA)	
126	1-648-756-11	MOTOR FLEXIBLE BOARD	
127	3-366-521-51	SCREW (M1.4X3.5)	
128	1-648-758-11	PLUNGER FLEXIBLE BOARD	
129	X-3367-022-1	CHASSIS ASSY (UT)	
130	3-365-760-01	PULLEY (REVERSE)	
131	X-3362-551-1	WHEEL (R) ASSY, CAPSTAN	
132	3-373-397-01	GUIDE (NR), HOLDER	
133	3-331-007-01	WASHER	
M901	1-541-971-11	MOTOR	
PM901	1-454-529-21	SOLENOID, PLUNGER	

ATS FLEXIBLE

MAIN

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts color ↑ Cabinet's color
- Items marked "✱" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ , for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Hardware (# mark) list is given in the last of this parts list.

Ref.No.	Part No.	Description			Remark
	1-648-755-11	ATS FLEXIBLE BOARD			
		**********			
		< SWITCH >			
S901	1-692-606-11	SWITCH, LEAF (TAPE/ATS DET)			
**********					
	A-3016-437-A	MAIN BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C102	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C103	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C104	1-104-847-91	TANTAL. CHIP	22uF	20%	4V
C105	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C106	1-164-346-11	CERAMIC CHIP	1uF		16V
C107	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C108	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V
C109	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C110	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C111	1-135-199-21	TANTAL. CHIP	1uF	10%	16V
C112	1-135-195-21	TANTAL. CHIP	0.47uF	10%	25V
C113	1-164-346-11	CERAMIC CHIP	1uF		16V
C114	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C115	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C201	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C202	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C203	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C204	1-104-847-91	TANTAL. CHIP	22uF	20%	4V
C205	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C206	1-164-346-11	CERAMIC CHIP	1uF		16V
C207	1-135-151-21	TANTALUM CHIP	4.7uF	20%	4V
C208	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V
C209	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C211	1-135-199-21	TANTAL. CHIP	1uF	10%	16V
C212	1-135-195-21	TANTAL. CHIP	0.47uF	10%	25V
C213	1-164-346-11	CERAMIC CHIP	1uF		16V
C214	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C215	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C301	1-104-847-91	TANTAL. CHIP	22uF	20%	4V
C302	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C303	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C304	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C305	1-135-218-11	TANTAL. CHIP	4.7uF	20%	2.5V
C306	1-104-847-91	TANTAL. CHIP	22uF	20%	4V
C307	1-135-218-11	TANTAL. CHIP	4.7uF	20%	2.5V
C308	1-164-346-11	CERAMIC CHIP	1uF		16V
C309	1-164-346-11	CERAMIC CHIP	1uF		16V
C310	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C311	1-104-847-91	TANTAL. CHIP	22uF	20%	4V
C312	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C313	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C314	1-164-700-11	CERAMIC CHIP	0.68uF		16V
C315	1-164-346-11	CERAMIC CHIP	1uF		16V
C316	1-164-346-11	CERAMIC CHIP	1uF		16V
C317	1-164-700-11	CERAMIC CHIP	0.68uF		16V
C318	1-164-346-11	CERAMIC CHIP	1uF		16V
C319	1-135-218-11	TANTAL. CHIP	4.7uF	20%	2.5V
C320	1-135-219-11	TANTAL. CHIP	15uF	20%	2.5V
C321	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C322	1-164-346-11	CERAMIC CHIP	1uF		16V
C401	1-164-346-11	CERAMIC CHIP	1uF		16V
C601	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C602	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C603	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C604	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C605	1-135-091-91	TANTAL. CHIP	1uF	20%	16V
C606	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C607	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V
C701	1-135-180-21	TANTALUM CHIP	3.3uF	20%	6.3V
C702	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C703	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C705	1-164-346-11	CERAMIC CHIP	1uF		16V
C706	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C707	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C708	1-164-505-11	CERAMIC CHIP	2.2uF	10%	16V
		< CONNECTOR >			
CN301	1-573-346-21	CONNECTOR, FFC/FPC 6P			

MAIN

Ref.No.	Part No.	Description	Remark
		< DIODE >	
D301	8-719-420-51	DIODE MA729	
D401	8-719-026-34	DIODE CL-170UR-CD	
D701	8-719-420-51	DIODE MA729	
D702	8-719-404-46	DIODE MA110	
D703	8-719-420-51	DIODE MA729	
		< HOLE ELEMENT >	
H701	8-719-042-61	ELEMENT, HALL HW-108AFT-DE	
		< IC >	
IC301	8-759-155-37	IC TA2032AF	
IC601	8-759-996-13	IC TLP326ADB	
IC701	8-759-180-32	IC MSM6576-CFX1219	
IC702	8-759-190-80	IC S-81211PG-PA	
IC703	8-759-180-33	IC MM1210-XFF	
		< JACK >	
J701	1-750-634-11	JACK 9P (REMOTE)	
		< JUMPER RESISTOR >	
JR401	1-216-864-11	METAL CHIP 0 5% 1/16W	
JR402	1-216-864-11	METAL CHIP 0 5% 1/16W	
JR403	1-216-864-11	METAL CHIP 0 5% 1/16W	
JR404	1-216-864-11	METAL CHIP 0 5% 1/16W	
		< COIL >	
L701	1-412-983-31	INDUCTOR 2.2uH	
L702	1-412-983-31	INDUCTOR 2.2uH	
L703	1-412-983-31	INDUCTOR 2.2uH	
		< TRANSISTOR >	
Q301	8-729-420-44	TRANSISTOR UN5210	
Q302	8-729-807-87	TRANSISTOR 2SB1295-UL6	
Q303	8-729-023-27	TRANSISTOR XN1U401	
Q304	8-729-425-25	TRANSISTOR XN4604	
Q305	8-729-230-63	TRANSISTOR 2SC4116-YG	
Q401	8-729-022-66	TRANSISTOR XN1210	
Q402	8-729-422-51	TRANSISTOR UN5110-QRS	
Q601	8-729-420-50	TRANSISTOR UN5215	
Q602	8-729-141-48	TRANSISTOR 2SB624-BV345	
Q603	8-729-141-48	TRANSISTOR 2SB624-BV345	
Q701	8-729-422-51	TRANSISTOR UN5110-QRS	
Q703	8-729-422-18	TRANSISTOR XN4315	
Q704	8-729-602-21	TRANSISTOR 2SC4154-F	
Q705	8-729-807-87	TRANSISTOR 2SB1295-UL6	
Q706	8-729-420-50	TRANSISTOR UN5215	
		< RESISTOR >	
R101	1-216-853-11	METAL CHIP 470K 5% 1/16W	
R102	1-216-836-11	METAL CHIP 18K 5% 1/16W	
R103	1-216-844-11	METAL CHIP 82K 5% 1/16W	
R104	1-216-818-11	METAL CHIP 560 5% 1/16W	
R105	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R106	1-216-823-11	METAL CHIP 1.5K 5% 1/16W	
R107	1-216-839-11	METAL CHIP 33K 5% 1/16W	
R108	1-216-839-11	METAL CHIP 33K 5% 1/16W	
R109	1-216-822-11	METAL CHIP 1.2K 5% 1/16W	
R110	1-216-822-11	METAL CHIP 1.2K 5% 1/16W	
R111	1-216-994-11	METAL GLAZE 13K 5% 1/16W	
R112	1-216-852-11	METAL CHIP 390K 5% 1/16W	
R113	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R114	1-216-793-11	METAL GLAZE 4.7 5% 1/16W	
R115	1-216-809-11	METAL CHIP 100 5% 1/16W	
R201	1-216-853-11	METAL CHIP 470K 5% 1/16W	
R202	1-216-836-11	METAL CHIP 18K 5% 1/16W	
R203	1-216-844-11	METAL CHIP 82K 5% 1/16W	
R204	1-216-818-11	METAL CHIP 560 5% 1/16W	
R205	1-216-821-11	METAL CHIP 1K 5% 1/16W	
R206	1-216-823-11	METAL CHIP 1.5K 5% 1/16W	
R207	1-216-839-11	METAL CHIP 33K 5% 1/16W	
R208	1-216-839-11	METAL CHIP 33K 5% 1/16W	
R209	1-216-822-11	METAL CHIP 1.2K 5% 1/16W	
R210	1-216-822-11	METAL CHIP 1.2K 5% 1/16W	
R211	1-216-994-11	METAL GLAZE 13K 5% 1/16W	
R212	1-216-852-11	METAL CHIP 390K 5% 1/16W	
R213	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R214	1-216-793-11	METAL GLAZE 4.7 5% 1/16W	
R215	1-216-809-11	METAL CHIP 100 5% 1/16W	
R301	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R302	1-216-843-11	METAL CHIP 68K 5% 1/16W	
R303	1-216-840-11	METAL CHIP 39K 5% 1/16W	
R304	1-218-292-11	METAL GLAZE 20K 5% 1/16W	
R305	1-216-849-11	METAL CHIP 220K 5% 1/16W	
R306	1-216-849-11	METAL CHIP 220K 5% 1/16W	
R307	1-216-793-11	METAL GLAZE 4.7 5% 1/16W	
R308	1-216-845-11	METAL CHIP 100K 5% 1/16W	
R309	1-216-825-11	METAL CHIP 2.2K 5% 1/16W	
R310	1-216-831-11	METAL CHIP 6.8K 5% 1/16W	
R311	1-216-827-11	METAL CHIP 3.3K 5% 1/16W	
R312	1-216-849-11	METAL CHIP 220K 5% 1/16W	
R313	1-216-809-11	METAL CHIP 100 5% 1/16W	
R401	1-216-849-11	METAL CHIP 220K 5% 1/16W	
R403	1-216-807-11	METAL CHIP 68 5% 1/16W	
R601	1-216-843-11	METAL CHIP 68K 5% 1/16W	
R602	1-216-833-11	METAL CHIP 10K 5% 1/16W	
R603	1-216-836-11	METAL CHIP 18K 5% 1/16W	
R604	1-216-793-11	METAL GLAZE 4.7 5% 1/16W	
R605	1-216-831-11	METAL CHIP 6.8K 5% 1/16W	
R606	1-216-809-11	METAL CHIP 100 5% 1/16W	

MAIN | MOTOR FLEXIBLE | PLUNGER FLEXIBLE

Ref. No.	Part No.	Description				Remark
R607	1-216-809-11	METAL CHIP	100	5%	1/16W	
R701	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R702	1-216-849-11	METAL CHIP	220K	5%	1/16W	
R703	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R704	1-216-849-11	METAL CHIP	220K	5%	1/16W	
R705	1-216-851-11	METAL CHIP	330K	5%	1/16W	
R706	1-216-817-11	METAL CHIP	470	5%	1/16W	
R707	1-218-345-11	METAL CHIP	9.1K	0.50%	1/16W	
R708	1-218-269-11	METAL CHIP	360	0.50%	1/16W	
R709	1-216-820-11	METAL CHIP	820	5%	1/16W	
R710	1-216-821-11	METAL CHIP	1K	0.50%	1/16W	
R711	1-216-822-11	METAL CHIP	1.2K	0.50%	1/16W	
R712	1-216-827-11	METAL CHIP	3.3K	5%	1/16W	
R713	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R714	1-216-849-11	METAL CHIP	220K	5%	1/16W	
R715	1-216-849-11	METAL CHIP	220K	5%	1/16W	
R716	1-216-849-11	METAL CHIP	220K	5%	1/16W	
R717	1-216-849-11	METAL CHIP	220K	5%	1/16W	
R718	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R719	1-216-843-11	METAL CHIP	68K	5%	1/16W	
R720	1-216-821-11	METAL CHIP	1K	5%	1/16W	
R722	1-216-849-11	METAL CHIP	220K	5%	1/16W	
		< VARIABLE RESISTOR >				
RV301	1-241-748-11	RES, VAR, CARBON 10K/10K (VOL)				
RV601	1-223-229-21	RES, ADJ, METAL GLAZE 4.7K				
		< SWITCH >				
S301	1-573-922-21	SWITCH, SLIDE (DOLBY NR)				
S302	1-692-605-11	SWITCH, SLIDE (EX DBB)				
S401	1-692-453-11	SWITCH, KEY BOARD (◀ ▶)				
S402	1-692-453-11	SWITCH, KEY BOARD (■)				
S403	1-692-453-11	SWITCH, KEY BOARD (AMS FF)				
S404	1-692-453-11	SWITCH, KEY BOARD (AMS REW)				
S701	1-573-922-21	SWITCH, SLIDE (MODE/BL SKIP)				
S702	1-572-581-11	SWITCH, SLIDE (FWD/REV)				
S703	1-692-377-41	SWITCH, PUSH (A/B SIDE)				
		< VIBRATOR >				
X701	1-579-258-11	VIBRATOR, CRYSTAL (32.768kHz)				
		**********				
	1-648-756-11	MOTOR FLEXIBLE BOARD				
		**********				
		< MOTOR >				
M901	1-541-971-11	MOTOR				
		**********				

Ref. No.	Part No.	Description	Remark
	1-648-758-11	PLUNGER FLEXIBLE BOARD	
		**********	
		< PLUNGER SOLENOID >	
PM901	1-454-529-21	SOLENOID, PLUNGER	
		**********	
		MISCELLANEOUS	
		**********	
71	1-648-755-11	ATS FLEXIBLE BOARD	
HP901	1-543-953-12	HEAD, MAGNETIC (PLAYBACK)	
M901	1-541-971-11	MOTOR	
PM901	1-454-529-21	SOLENOID, PLUNGER	
S901	1-692-606-11	SWITCH, LEAF (TAPE/ATS DET)	
		**********	
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-466-663-11	REMOTE CONTROL UNIT (RM-77E) (AEP, UK)	
	1-467-200-11	REMOTE CONTROL UNIT (RM-WM7E) (with LCD) (E, Tourist, AEP)	
	1-528-231-11	BATTERY, NICKEL CADMIUM (NC-6WM) (E, Tourist, UK)	
*	1-528-231-22	BATTERY, NICKEL CADMIUM (NC-6WM) (AEP)	
	1-528-251-11	BATTERY CHARGER (BC-7S) (AEP, UK)	
	1-528-445-11	BATTERY CHARGER (BC-8AT) (E, Tourist)	
	1-550-640-11	BATTERY CASE (BLACK:Tourist) (E, AEP, UK)	
	1-550-937-11	BATTERY CASE (SILVER, BLUE, ORANGE:Tourist)	
	1-569-007-11	ADAPTOR, CONVERSION 2P (AEP, UK)	
	1-691-322-11	ADAPTOR, PLUG	
*	3-376-784-11	CUSHION	
	3-377-276-01	CASE, CARRYING	
*	3-382-452-01	CASE, ACCESSORY (AEP, UK)	
	3-757-431-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH) (AEP:with RM-77E) (UK)	
	3-757-431-41	MANUAL, INSTRUCTION (JAPANESE, ENGLISH) (Tourist)	
	3-757-431-51	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH) (AEP:with RM-77E)	
	3-757-431-61	MANUAL, INSTRUCTION (ITALIAN, PORTUGUESE) (AEP:with RM-77E)	
	3-757-431-71	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH) (AEP:with RM-WM7E) (E)	
	3-757-431-81	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH) (AEP:with RM-WM7E)	
	3-757-431-91	MANUAL, INSTRUCTION (ITALIAN, PORTUGUESE) (AEP:with RM-WM7E)	
*	3-906-697-01	INDIVIDUAL CARTON (Tourist, E)	
*	3-906-699-01	INDIVIDUAL CARTON (AEP, UK)	

Ref. No.	Part No.	Description	Remark
	8-953-537-90	HEADPHONE MDR-E741MP//K SET	
	X-3329-657-1	ATTACHMENT ASSY	

****

****
HARDWARE LIST
****

#1	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	

9-957-995-11

Sony Corporation
General Audio Group

English
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WM-EX808/EX808HG

SONY

SERVICE MANUAL

AEP Model
UK Model
WM-EX808HG
E Model
Tourist Model
WM-EX808

SUPPLEMENT-1

File this supplement with the service manual.

Subject : 1. MAIN BOARD circuit change
2. CORRECTIONS

(RPC-94030)

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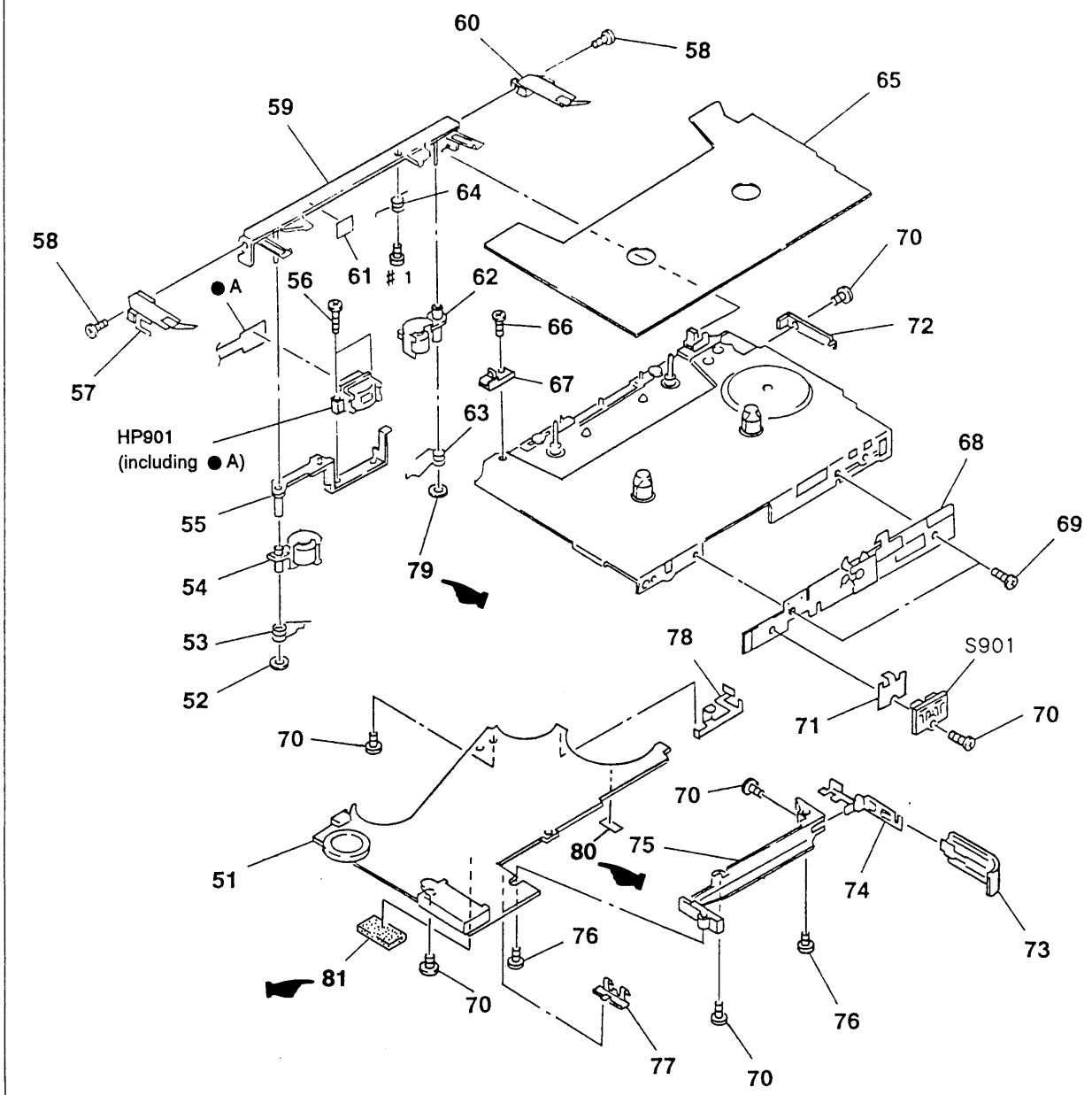
• CORRECTIONS

Modified points are indicates as follows.

☛ : indicator corrected portion.

Page	INCORRECT			CORRECT	
	Ref. No.	Part No.	Description	Part No.	Description
21	79	———	———	3-380-362-01	WASHER
	81	———	———	4-017-441-01	CUSHION (B)
	80	———	———	3-841-069-02	SPACER
22	102	3-331-007-21	WASHER	3-348-993-01	WASHER
	129	X-3367-022-1	CHASSIS ASSY (UT)	X-3367-021-1	CHASSIS ASSY (UT)
25		1-528-231-11	BATTERY, NICKEL CADMIUM (NC-6WM) (E, Tourist, UK)	1-528-543-11	BATTERY, NICKEL CADMIUM (NC-6WM) (E, AEP, UK)
		1-528-231-22	BATTERY, NICKEL CADMIUM (NC-6WM) (AEP)	1-528-231-22	BATTERY, NICKEL CADMIUM (NC-6WM) (Tourist)
		1-528-251-11	BATTERY CHARGER (BC-7S) (AEP, UK)	1-528-251-11	BATTERY CHARGER (BC-7S) (AEP)
		———	———	1-528-252-11	BATTERY CHARGER (BC-7S) (UK)

21



• CHANGED PARTS

Pag	FORMER			NEW	
	Ref. No.	Part No.	Description	Part No.	Description
	6	X-3367-108-1	CASE (TC) ASSY (BLACK: EX808)	X-3367-108-5	CASE (TC) ASSY (BLACK: EX808)
20	6	X-3367-231-1	CASE (TC) ASSY (SILVER: EX808)	X-3367-231-5	CASE (TC) ASSY (SILVER: EX808)
	6	X-3367-232-1	CASE (TC) ASSY (BLUE: EX808)	X-3367-232-5	CASE (TC) ASSY (BLUE: EX808)
	6	X-3367-233-1	CASE (TC) ASSY (ORANGE: EX808)	X-3367-233-5	CASE (TC) ASSY (ORANGE: EX808)
	6	X-3367-245-1	CASE (TC) ASSY (EX808HG)	X-3367-245-5	CASE (TC) ASSY (EX808HG)
21	HP901	1-543-953-12	HEAD, MAGNETIC (PLAYBACK)	1-500-101-11	HEAD, MAGNETIC (PLAYBACK)
25	HP901	1-543-953-12	HEAD, MAGNETIC (PLAYBACK)	1-500-101-11	HEAD, MAGNETIC (PLAYBACK)

• MAIN BOARD CIRCUIT CHANGE

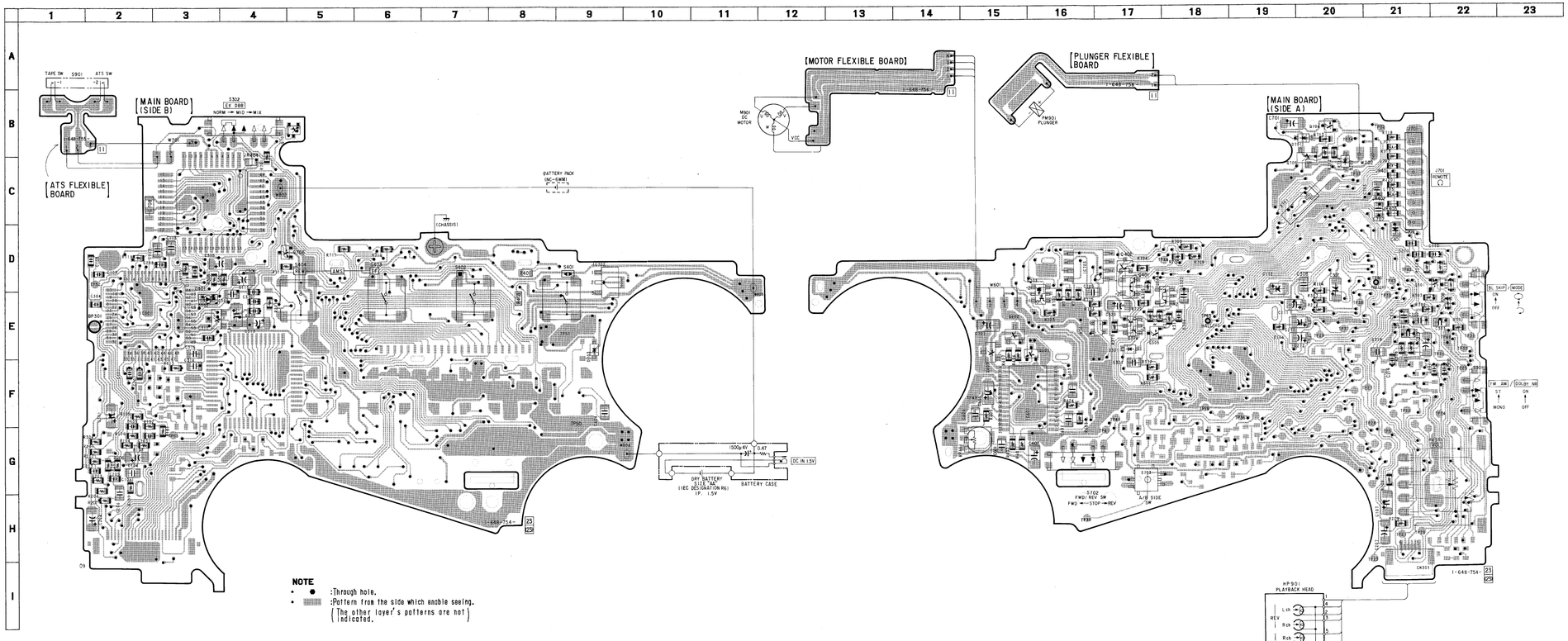
[ELECTRICAL PARTS LIST]

Pag	Board	Ref.No.	FORMER	NEW
	PLUNGER FLEXIBLE	PM901	1-454-529-21 SOLENOIDE, PLUNGER	1-454-674-21 SOLENOIDE, PLUNGER
23	MAIN	C302	1-164-489-11 CERAMIC CHIP 0.22uF 10% 25V	1-164-336-11 CERAMIC CHIP 0.33uF 25V
		C303	1-164-489-11 CERAMIC CHIP 0.22uF 10% 25V	1-164-222-11 CERAMIC CHIP 0.22uF 25V
		C603	1-164-344-11 CERAMIC CHIP 0.068uF 10% 25V	1-163-036-00 CERAMIC CHIP 0.068uF 50V
		C606	1-163-809-11 CERAMIC CHIP 0.047uF 10% 25V	1-163-035-00 CERAMIC CHIP 0.047uF 50V
24		IC701	8-759-180-32 IC MSM6576-CFX1219	8-759-254-30 IC MSM6576-32GS-K
		L701	1-412-983-31 INDUCTOR 2.2uH	1-414-385-11 INDUCTOR, FERRITE BEAD
		L702	1-412-983-31 INDUCTOR 2.2uH	1-414-385-11 INDUCTOR, FERRITE BEAD
		L703	1-412-983-31 INDUCTOR 2.2uH	1-414-385-11 INDUCTOR, FERRITE BEAD
25		R707	1-218-345-11 METAL CHIP 9.1K 0.50% 1/16W	1-218-870-11 METAL CHIP 9.1K 0.50% 1/16W
		R708	1-218-269-11 METAL CHIP 360 0.50% 1/16W	1-218-836-11 METAL CHIP 360 0.50% 1/16W
		R709	1-216-820-11 METAL CHIP 820 5% 1/16W	1-218-845-11 METAL CHIP 820 0.50% 1/16W
		R710	1-216-821-11 METAL CHIP 1K 0.50% 1/16W	1-218-692-11 METAL CHIP 1K 0.50% 1/16W
		R711	1-216-822-11 METAL CHIP 1.2K 0.50% 1/16W	1-218-694-11 METAL CHIP 1.2K 0.50% 1/16W
		S301	1-572-922-21 SWITCH, SLIDE (DOLBY NR)	1-572-922-11 SWITCH, SLIDE (DOLBY NR)
		S701	1-572-922-21 SWITCH, SLIDE (MODE/BL SKIP)	1-572-922-11 SWITCH, SLIDE (MODE/BL SKIP)
		S703	1-692-377-41 SWITCH, PUSH (A/B SIDE)	1-692-377-31 SWITCH, PUSH (A/B SIDE)
	MISCELLA-NEOUS	HP901	1-543-953-12 HEAD, MAGNETIC (PLAYBACK)	1-500-101-11 HEAD, MAGNETIC (PLAYBACK)
		PM901	1-454-529-21 SOLENOID, PLUNGER	1-454-674-21 SOLENOID, PLUNGER

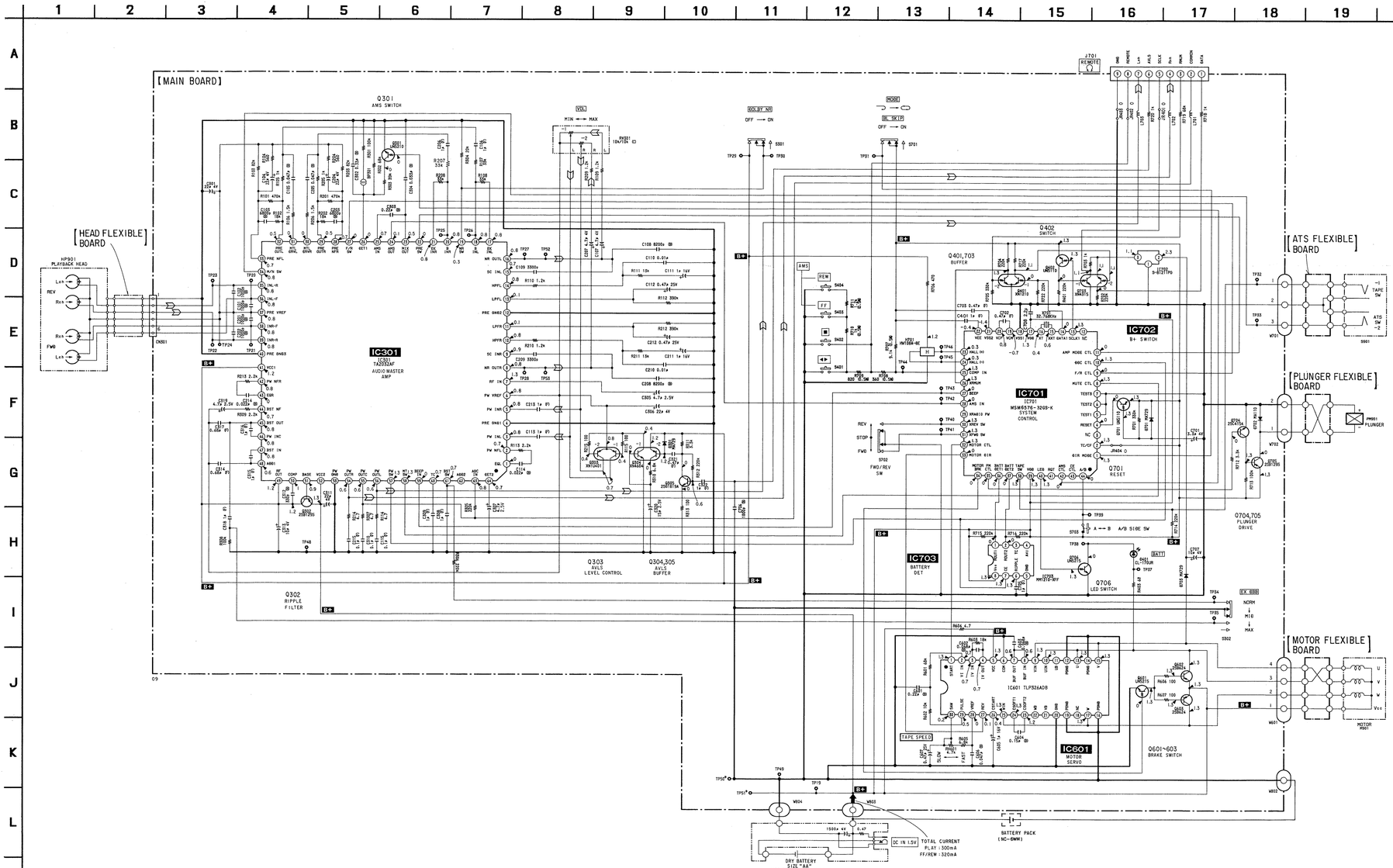
PRINTED WIRING BOARD

• **Semiconductor Location**

Ref. No.	Location
Q301	E-17
D401	E-3
D701	B-20
D702	C-21
D703	E-9
IC301	E-2
IC601	F-16
IC701	C-3
IC702	D-9
IC703	D-17
Q301	D-22
Q302	E-3
Q303	D-18
Q304	E-17
Q305	E-18
Q401	D-17
Q402	D-17
Q601	E-16
Q602	E-16
Q603	F-15
Q701	B-5
Q703	D-16
Q704	B-20
Q705	C-20
Q706	D-5

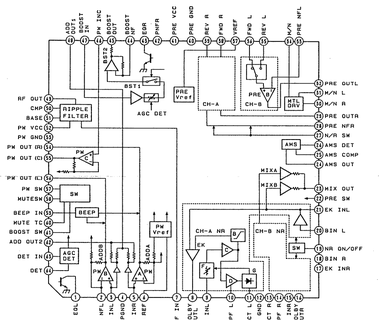

[MAIN BOARD] (SIDE B)
[ATS FLEXIBLE] BOARD
[MOTOR FLEXIBLE BOARD]
[PLUNGER FLEXIBLE] BOARD
[MAIN BOARD] (SIDE A)
NOTE
• ● :Through hole.
• ▩ :Pattern from the side which enable seeing. (The other layer's patterns are not indicated.)

SCHEMATIC DIAGRAM

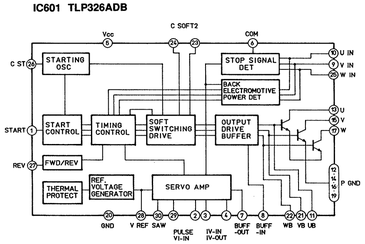


• IC Block Diagrams

IC301 TA2032AF



IC601 TLP326ADB



NOTE

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % :indicates tolerance.
- ▭ :panel designation.
- B+ :B+ Line.
- ▭ :adjustment for repair.
- Voltages are dc with respect to ground under no-signal conditions. no mark:PLAY
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Power voltage is dc1.3 V and fed with regulated dc power supply from battery terminal.
- Total current is measured with no cassette installed.
- Signal path.
  ▷ :PB